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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/457,724	12/10/1999	JOE CARLIN	ARGO.0001	7995
38327	7590	10/18/2004	EXAMINER	
REED SMITH LLP 3110 FAIRVIEW PARK DRIVE, SUITE 1400 FALLS CHURCH, VA 22042			CORRIELUS, JEAN B	
			ART UNIT	PAPER NUMBER
			2637	

DATE MAILED: 10/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

13

Office Action Summary	Application No. 09/457,724	Applicant(s) CARLIN ET AL.	
	Examiner Jean B Corrielus	Art Unit 2631	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 July 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 6,7,10-48,52-54,57,62-67,75,85-90,98,99,102 and 104 is/are pending in the application.
- 4a) Of the above claim(s) 104 is/are withdrawn from consideration.
- 5) ☒ Claim(s) 6,7,10-48,52-54,57,62-67,75,85-90,98,99 and 102 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claims 6, 7, 10 13-14, 18, 21-22, 25-27, 29-48, 62, 63, 65-67, 75, 85-89, 87, 90, 98-99, and 102 are objected to because of the following informalities:

Claim 6, line 11, after router, “as means” should be replaced by “coupling each module to one another”; lines 11-12, plurality of module” should be deleted; line 16, before “at least”, “said” should be inserted;

Claim 10, line 1, “means” should be replaced by “at least one signal demodulation and recognition processor” should be inserted; line 2, after data, “of said corresponding complex spectral components” should be inserted so as to be consistent with antecedent.

Claim 11, line 5, before “at least”, “said” should be inserted.

Claim 14, line 5, shouldn’t “based” be inserted after data?

Claim 18, line 2, “ parameters on said complex signal samples based on said running spectral averages” should be replaced by “activity parameter data based on said real spectral components” so as to be consistent with antecedent.

Claim 21, line 2, “complex should be “real” so as to be consistent with antecedent. The same comment applies to claim 22.

Claim 25, line 10, shouldn’t “of a” be inserted before plurality? The same comment applies to line 12.

Claim 26, line 3, shouldn’t “predeterminedly” be “predetermined?

Claim 29, line 4, “may be” should be replaced by “is”. Claim 33, “at least one” should be “said at least one of said”

Claim 34, line 2 after one, “of said” should be inserted. The same comment applies to claim 35, line 2.

Claim 36, lines 11-12, and lines 16, 17, what does it mean by “first sensor source plurality of complex spectral component streams”? line 18, after router, “coupling each module to one another” should be inserted; lines 11-12, plurality of module”.

Claim 41, line 1, “means” should be replaced by “channel processors.

Claim 43, line 1, “after said, “means for” should be inserted; before includes, “means” should be deleted.

Claim 45, line 3, “an” should be replaced by “said”.

Claim 62, line 3, “component streams” should be replaced by “components”; the same comment applies to claim 63-67, line 3, respectively.

Claim 67, line 2, “shouldn’t said streams” be “said plurality of sub-band signals”.

Claims 85, “hyperchannelized” should be deleted so as to be consistent with antecedent. The same comment applies to claims 86, 87, 89 and 98.

Claim 88, line 2, “data” should be “signal” so as to be consistent with antecedent. The same comment applies to claims 89, lines 3-4 and claim 99, line 3.

Claim 98, what does it mean by “time tick”?

Claim 102, line 2, “consistent” needs to be deleted.

Note that any claim whose base claim is objected is likewise objected.

Appropriate correction is required.

2. Claim 104 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to refer to two claims in the alternative. Accordingly, the claim will not be examined on the merit. Applicant is required to cancel the claim, or amend the claim to place the claim in proper dependent form, or rewrite the claim in independent form.

3. This application is in condition for allowance except for the above formal matters.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Allowable Subject Matter

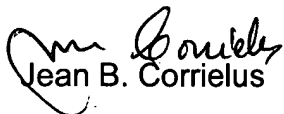
4. Claims 6, 7, 10-48, 52-54, 57, 62-67, 75, 85-90, 98, 99 and 102 are allowed. However, the claims must be amended, if necessary to overcome any objection set forth above.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is (571) 272-3020. The examiner can normally be reached on Monday-Thursday from 7:00 A.M. to 5:30 P.M.

Art Unit: 2637

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel, can be reached on (571) 272-3086.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.


Jean B. Corrielus

Primary Examiner

TC-2600

10-15-04